

A FIRE RETARDANT COMPOSITE PANEL PRODUCT AND A METHOD AND
SYSTEM FOR FABRICATING SAME

ABSTRACT OF THE INVENTION

5 In one embodiment, a fire retardant composite panel material is
fabricated. A water-based slurry comprising partially soluble boric acid and
borax pentahydrate solids is created. An adhesive used in the composite panel
fabrication process is added to fibers. The water-based slurry is separately
added to the adhesive and, after mixing, to the fibers. The composite panel
10 produced thereby is also described.